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in Washington this month and to which the Honorable Charles D. Walcott and Miss H. Newell Wardle were last year appointed delegates.

Letters thanking the Academy for courtesies extended during the Convocation Week meetings of 1915 were received from the American Association for the Advancement of Science, the Geological Society of America, and the American Fern Society.

Correspondence with individuals and institutions requesting information on a variety of subjects was conducted as usual.

Statistics of the correspondence transacted is shown in the following table:

#### Communications received:

|  |     |
|--|-----|
| Acknowledging receipt of the Academy's publications.....                                     | 160 |
| Transmitting publications to the Academy.....  | 57  |
| Requesting exchanges or the supply of deficiencies.....                                      | 1   |
| Invitations to learned gatherings, celebrations, etc.....                                    | 9   |
| Notices of deaths of scientific men.....   | 10  |
| Circulars concerning the administration of scientific and educational institutions, etc..... | 29  |
| Photographs and biographies of correspondents.....   | 4   |
| Letters from correspondents.....   | 13  |
| Miscellaneous letters.....   | 100 |
| Total received.....  | 383 |

#### Communications forwarded:

|  |       |
|--|-------|
| Acknowledging gifts to the library.....  | 1,155 |
| Requesting the supply of deficiencies.....   | 124   |
| Acknowledging gifts to the museum.....   | 134   |
| Acknowledging photographs and biographies.....                                     | 5     |
| Letters of sympathy or congratulation, addresses, etc.....                         | 7     |
| Diplomas and notices of election of correspondents and delegates' credentials..... | 17    |
| Miscellaneous letters.....   | 180   |
| Annual reports and circulars sent to correspondents.....                           | 204   |
| Total forwarded.....   | 1,826 |

Respectfully submitted,

J. PERCY MOORE, *Corresponding Secretary.*

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#### REPORT OF THE LIBRARIAN.

During the past year 564 volumes, 5,858 pamphlets and periodicals, 135 maps, 3 sheets, and 1 photograph, a total of 6,561, have been added to the Library.

These additions have been derived from the following sources:

|                                    |       |                                      |   |
|------------------------------------|-------|--------------------------------------|---|
| Exchanges.....                     | 2,754 | Publication Committee of the         |   |
| I. V. Williamson Fund.....         | 1,825 | Academy.....                         | 4 |
| United States Department of        |       | Wisconsin Geological and Nat-        |   |
| Agriculture.....                   | 532   | ural History Survey.....             | 4 |
| American Entomological Society     | 298   | Pennsylvania Water Supply            |   |
| General Appropriation.....         | 292   | Commission.....                      | 3 |
| J. A. Meigs Fund.....              | 136   | Lowell Observatory.....              | 3 |
| Authors.....                       | 91    | Japan Society of America.....        | 3 |
| Editors.....                       | 77    | University of Tennessee.....         | 3 |
| United States Bureau of Edu-       |       | Michigan Geological and Bio-         |   |
| cation.....                        | 62    | logical Survey.....                  | 3 |
| Pennsylvania Department of         |       | Ella B. Altemus.....                 | 3 |
| Agriculture.....                   | 33    | Central Seismological Station        |   |
| Queensland Department of           |       | in Pulkow.....                       | 3 |
| Mines, Geological Survey.....      | 33    | Bentham Trustees, Kew Gardens        | 2 |
| New York Agricultural Experi-      |       | University of Wyoming.....           | 2 |
| ment Station.....                  | 31    | Rockefeller Sanitary Institute       |   |
| Imperial Department of Agri-       |       | for the Eradication of the           |   |
| culture, British West Indies.....  | 30    | Hook Worm.....                       | 2 |
| Dr. Witmer Stone.....              | 24    | American Institute of Electrical     |   |
| Pennsylvania Department of         |       | Engineers.....                       | 2 |
| Health.....                        | 20    | State Board of Charities, New        |   |
| Commission Géologique de Fin-      |       | York.....                            | 2 |
| lande.....                         | 18    | Government of India.....             | 2 |
| Thos. B. Wilson Fund.....          | 15    | Washington Geological Survey...      | 2 |
| Dr. Henry Skinner.....             | 15    | Wistar Institute of Anatomy.....     | 2 |
| United States Department of        |       | Pennsylvania Department of           |   |
| the Interior.....                  | 14    | Forestry.....                        | 2 |
| United States Department of        |       | Pennsylvania State College.....      | 2 |
| Commerce and Labor.....            | 14    | Hervas Laboratory of American        |   |
| Pan-American Union.....            | 12    | Linguistics.....                     | 2 |
| American Iron and Steel Insti-     |       | Observatorio Astronomico de          |   |
| tute.....                          | 12    | Madrid.....                          | 2 |
| National Academy of Sciences...    | 10    | Dr. W. D. Bayley.....                | 2 |
| United States War Department..     | 8     | Goodsell Observatory.....            | 2 |
| Library of Congress.....           | 8     | Clarence B. Moore.....               | 2 |
| Dr. Edward J. Nolan.....           | 8     | Editors of Entomological News..      | 1 |
| Department of Trade and Cus-       |       | Museum d'Histoire Naturelle de       |   |
| tombs, Australia.....              | 8     | Havre.....                           | 1 |
| Sveriges Geologiska Under-         |       | Dr. Thomas Biddle.....               | 1 |
| sökning.....                       | 8     | James F. Wood.....                   | 1 |
| New Mexico College of Agri-        |       | Pennsylvania Chestnut Tree           |   |
| culture.....                       | 7     | Blight Commission.....               | 1 |
| Florida State Geological Survey.   | 7     | Warren Academy of Sciences.....      | 1 |
| Topographic and Geologic Sur-      |       | Iowa Geological Survey.....          | 1 |
| vey of Pennsylvania.....           | 7     | Charles H. Townsend.....             | 1 |
| Department of Fisheries, Ben-      |       | Gouvernements Kina Onder-            |   |
| gal, Bihar and Orissa.....         | 7     | neming te Tjinjirean (Bandoeng)..... | 1 |
| Geological Survey of New Jersey    | 6     | Government of Formosa.....           | 1 |
| California Fish and Game Com-      |       | Colorado Museum of Natural           |   |
| mission.....                       | 6     | History.....                         | 1 |
| Pennsylvania State Library.....    | 6     | Geological Survey of Alabama...      | 1 |
| Illinois State Geological Survey.. | 5     | Connecticut Geological and           |   |
| Estacion Seismologica de Car-      |       | Natural History Survey.....          | 1 |
| tuja.....                          | 5     | United States Brewers' Associa-      |   |
| Argentine Government.....          | 5     | tion.....                            | 1 |
| Commission of Conservation,        |       | Delaware Valley Ornithological       |   |
| Canada.....                        | 4     | Club.....                            | 1 |
| William J. Fox.....                | 4     | Los Angeles County Museum            |   |
| Seismological Society of America   | 4     | of History, etc.....                 | 1 |
| Indiana University.....            | 4     |                                      |   |

|   |   |   |   |
|---|---|---|---|
| Zoological Society of Philadelphia.....                             | 1 | Charles W. Richmond.....  | 1 |
| Dr. William H. Dall.....  | 1 | Nora C. Fretageot.....  | 1 |
| Trustees of Estate of Lucy Hunter Baird.....                        | 1 | Commissioners on Fisheries and Game, Massachusetts.....                 | 1 |
| Geological Survey of Georgia.....                                   | 1 | Hirase Conchological Museum.....  | 1 |
| Imperial Institute for the Study of Infectious Diseases, Tokyo..    | 1 | Crosby Frisian Fur Company.....   | 1 |
| Dr. Ulric Dahlgren.....   | 1 | Delaware County Institute of Science.....                               | 1 |
| Cuerpo de Ingenieros de Minas del Peru.....                         | 1 | Albert I, Prince de Monaco.....   | 1 |
| Commissao de Linhas Telegraphicas Estrategicas de Matto Grosso..... | 1 | Game Commissioners of Pennsylvania.....                                 | 1 |
| Pennsylvania Department of Fisheries.....                           | 1 | Dr. Charles K. Mills.....   | 1 |
| Joseph Willcox.....   | 1 | Philadelphia Museums.....   | 1 |
|   |   | Japanese Commission to the Panama-Pacific International Exposition..... | 1 |

They have been distributed to the several departments of the Library as follows:

|                              |       |                                   |    |
|------------------------------|-------|-----------------------------------|----|
| Journals.....                | 4,593 | Helminthology.....                | 17 |
| Agriculture.....             | 657   | Anthropology.....                 | 17 |
| Geology.....                 | 517   | Physical Sciences.....            | 16 |
| Botany.....                  | 139   | Mineralogy.....                   | 12 |
| Entomology.....              | 102   | Ichthyology.....                  | 11 |
| Geography.....               | 102   | Herpetology.....                  | 9  |
| General Natural History..... | 90    | Mathematics.....                  | 9  |
| Anatomy and Physiology.....  | 60    | Chemistry.....                    | 8  |
| Voyages and Travels.....     | 44    | Mammalogy.....                    | 8  |
| Ornithology.....             | 30    | Dictionaries.....                 | 2  |
| Conchology.....              | 23    | Philology.....                    | 1  |
| Medicine.....                | 22    | Miscellaneous (unclassified)..... | 53 |
| Bibliography.....            | 19    |                                   |    |

The following are perhaps worthy of special mention:

- Bergsträsser, Nomenclatur und Beschreibungen der Insekten, etc., 4 parts in 2 vols., 1778-1780.  
Howard, British Warblers.  
Beccari, Palmen de Madagascar, 1914.  
Esper, Die europäischen Schmetterlinge, 5 Theile in 12 vols.  
Martyn, Universal Conchologist, 4 vols., 1784.  
Hoppe, Entomologisches Taschenbuch, 2 vols., 1796-1797.  
Borowski, Gemeinnützige Naturgeschichte des Thierreichs, 10 vols. in 8, 1780-1789.  
Hoppe, Ectypa Plantarum Ratisbonensium, 8 vols., 1787-1793.  
Ascanius, Icones Rerum Naturalium, 4 vols., 1772-1777.

The collection of journals and periodicals has been desirably increased by the addition of the following:

- Annals of Applied Biology, London, I; II, 1-3.  
Anthropologia, London, 1 volume, 1873-1875.  
Aquatic Life, Philadelphia, I, 1-3.  
Bolus Herbarium, Annals, Cape Town, I, 1, 2.  
Caledonian Horticultural Society, Edinburgh Memoirs, 4 volumes, 1814-1829.  
California Fish and Game, San Francisco, I, 1-5.  
Chemie der Erde, Jena, I, 1.  
Contribucion al Estudio de los Ciencias, etc., La Plata, N. 15.

- Cybele Columbiana, Washington, I, 1.  
 Discovery, Philadelphia, I, 1.  
 Gouvernements Kina-Onderneming te Tjinjirean (Bandoeng), Batavia, 1913.  
 Hawaiian Forester and Agriculturist, Honolulu, partial set of I-XII.  
 Hervas Laboratory of American Linguistics, Bulletin, St. Louis, Nos. 4, 5.  
 Illinois Biological Monographs, Urbana, I, 1-4.  
 Instituto di Geografia, etc., Catania, Nos. 1-4.  
 Jugoslavenska Akademija Znanosti i Umjetnosti, Isvjescao Rospravama Matem.-Prir. Razreda, No. 2; Prirodoslova Istrazivanja, etc., Matem.-Prir. Razreda, Nos. 1-3.  
 Los Angeles County Museum of History, etc., Miscellaneous Publication, No. 1.  
 Missouri Botanical Garden, Annals, I; II, 1-3.  
 Mycological Bulletin, Columbus, imperfect set.  
 National Academy of Sciences, Washington, Proceedings, I, 1-11.  
 Natur und Heimat, Godesberg, Nos. 1-9.  
 Ohio Naturalist, Columbus, complete.  
 Pennsylvania Department of Forestry, Harrisburg, Bulletin Nos. 11, 12.  
 Philippine Agricultural Review, Manila, V; VI; VIII, 1.  
 Phytopathology, Baltimore, V, 1-5.  
 Progrès Agricole et Viticole, Villefranche, XXXII-XXXVI.  
 Queensland Department of Mines (Geological Survey, Brisbane, Annual Report, 1901-1914; Publications, part of 119-239.  
 Regensburgische Botanische Gesellschaft, Regensburg, Schriften I, 1792.  
 Scientific Monthly, New York, I, 1-3.  
 Société d'Études Scientifiques de l'Aude, Carcassone, Bulletin, I-VII, XI-XXIV.  
 Société des Lettres, Sciences et Arts de Bar-le-Duc et Commercy, Bar-le-Duc, Bulletin Mensuel, 1913.  
 University of Chicago, Bulletin of the Department of Anthropology, Nos. 1-5.  
 Vorträge aus dem Gesamtgebiet d. Botanik, Berlin, 1.  
 Walker Museum, Contributions, Chicago, I, 1-8.  
 Zoologische Mededeelingen, Leiden, Afl. 1.

A well-bound copy of the Rev. J. G. Wood's *Animate Creation*, in three volumes, quarto, has been given to the Academy by Miss Ella B. Altemus, in memory of the late William Wilkinson Altemus.

The notable decrease in the number of additions to the Library during 1915 has been due to two causes: A lessening of appropriations, but more especially the interference with foreign correspondence by the horrible war which is, in one way or another, affecting every human interest, most of them disastrously. The German production of scientific publications was at first sustained, but is now decreasing. Out of sixty-nine German periodicals subscribed for nothing has been received from twenty-one of them. The English journals continue as usual, and the French, while much affected at first, are now for the most part going on as before the war. We have been warned by the Royal Academy of the Lincei, the Royal Academy of Sciences of Petrograd, and the Chemical Society of London that issues forwarded now must be at our risk, as losses, if any occur, will not be made up. In these cases it has been thought best to ask for a prompt supply of publications, assuming such risk as may be involved, for it will probably not be more than we should run in expecting the volumes in bulk at the end of the conflict.

Shipments from Germany and Austria were stopped by a British Order in Council in June. We are informed, however, that the British Government is now prepared to issue permits for shipment of scientific books to the United States from Germany and Austria if destined for universities, colleges, scientific societies or public bodies. We may profit during the coming year by this relaxation, although it is accompanied by a great deal of annoying red tape.

The interruption of exchange noted in the report of the Recording Secretary of course greatly affects the receipts from corresponding societies. Even when regular shipments are made invoices and bills of lading are held up on the other side and insufficient steamer accommodations cause uncertain deliveries.

Chapter IX, Art. 3, of the By-Laws was amended in January so as to permit of the loaning to members of certain books specified by the Librarian and the Library Committee for a period not exceeding one month.

Although it was held by Maclure and his contemporaries that all books belonging to the Academy should be exclusively for use within the building, both for the good of those working on the premises and to lessen the danger of loss, it was considered that such a rule was not practicable until the services of a Librarian during portions of the day could be secured. Certain designated books were therefore permitted to be borrowed until 1850, when Thomas B. Wilson presented to the Academy the extremely valuable works which he had from time to time deposited with the understanding that they should never be loaned on any condition. This applied to such an important portion of the Library that the rule was then made general and from 1850 until last January no books were knowingly allowed to leave the building except to be bound.

Since the new rule has been in operation forty-six works in fifty-eight volumes have been borrowed. These have all been returned but two, which are now alone outstanding.

A system of registry of works taken for use in the Academy's study rooms has been adopted. 822 titles in 1,061 volumes have been placed at the service of students and workers in the building. 375 of these are still in use.

While a few of the books taken from the building have manifestly been for more or less desultory reading, the others have undoubtedly been for serious consultation and study, so that there is reason to believe that the operation of the new law is, as far as it goes, for the advancement of science without any counterbalancing disadvantage. By

direction of the Council, no volumes or parts of journals or periodicals may be borrowed without the special consent of the Librarian, who must be reasonably sure, before the publication is sent out, that the interests of those working on the premises will not be interfered with by the loan.

As required by the By-Law, a separate list of books that can be borrowed is being prepared and is nearing completion.

A very desirable subject index to the map collection has been prepared by Mr. Fox.

Forty-seven volumes of works not connected with the Academy's interests have been transferred to the Free Library of Philadelphia.

A framed photograph of Rembrandt Peale's oil portrait of Reuben Haines, who served most efficiently as Corresponding Secretary from February, 1814, to December, 1831, has been presented by his grandson, Reuben Haines.

A framed photograph from life of the late Dr. Benjamin Sharp has been received from Mrs. Sharp.

Through the liberality of a number of subscribers, there has been obtained a replica of the portrait of Baron Von Humboldt, painted from life in 1856 by J. R. Lambdin, and now in the rooms of the American Philosophical Society. The picture has been beautifully framed by the President of the Academy.

It is pleasant to again acknowledge the good work done by William J. Fox and Furman Sheppard Wilde, both in the Library and in connection with the issue of the publications.

EDWARD J. NOLAN, *Librarian*.

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#### REPORT OF THE CURATORS.

The completion of the year 1915 finds the Academy's buildings and collections in excellent condition. Much important work has been accomplished in studying, arranging, and cataloguing material in the several departments of the Museum, and many important accessions have been received through gift or purchase.

The number of visitors to the Museum has steadily increased, especially classes from the schools of Philadelphia and vicinity which come to study the exhibits under the guidance of their teachers.

At the last session of the State Legislature the sum of \$10,000 was appropriated to the Academy for the purchase of cases, and arrangements have been made to furnish the north wing of the Museum with exhibition cases so that it may be reopened to the public during